



Figure S1. Population locations, sea surface temperatures (A: winter – January 2018; B: summer – July 2018), and latitudinal variation in critical thermal maximum (CT_{max}; C). San Rogue (SR; dark red), La Bufadora (BF; pink), San Diego (SD; red), Bird Rock (BR; orange), Abalone Cove (AB; yellow), Estero Bay (EB; teal), San Simeon (SS; light blue), Santa Cruz (SC; blue), Pescadero (PE; green) and Pacific Crest (PC; dark blue). Dashes and error bars display mean \pm s.e.m., dotted grey line segments connect population means, small symbols show individual data points (females – circles; males – triangles), and lower case letters indicate the results of post-hoc comparisons among populations ($n = 16$ for all populations). Sea surface temperatures obtained from http://www.cpc.ncep.noaa.gov/products/GIS/GIS_DATA/sst_oiv2/index.php.

Table S1. Geographic coordinates for *T. californicus* collection locations.

Population	Country, State or Province	Latitude	Longitude
San Rogue (SR)	Mexico, Baja California Sur	27.179937	-114.397685
La Bufadora (BF)	Mexico, Baja California	31.723725	-116.721815
San Diego (SD)	USA, California	32.744828	-117.255264
Bird Rock (BR)	USA, California	32.814202	-117.273379
Abalone Cove (AB)	USA, California	33.736857	-118.373817
Estero Bay (EB)	USA, California	35.447477	-120.931204
San Simeon (SS)	USA, California	35.629308	-121.160777
Santa Cruz (SC)	USA, California	36.949433	-122.046358
Pescadero (PE)	USA, California	37.259631	-122.414116
Pacific Crest (PC)	Canada, British Columbia	48.829868	-125.151587

Table S2. qRT-PCR sample sizes for each gene, population and treatment.

Population	Gene	dev. & acc.¹ treatment	Heat shock treatment sample size		
			Control	35°C	36°C
San Diego, California (SD)	<i>hspb1</i>	20°C	5	6	4
		25°C	5	6	5
	<i>hsp70</i>	20°C	6	6	4
		25°C	6	6	5
	<i>mt-atp6</i>	20°C	5	6	4
		25°C	6	6	5
	<i>gapdh</i>	20°C	6	6	4
		25°C	6	6	5
Bird Rock, California (BR)	<i>hspb1</i>	20°C	6	6	5
		25°C	6	6	6
	<i>hsp70</i>	20°C	6	6	5
		25°C	6	6	6
	<i>mt-atp6</i>	20°C	6	6	5
		25°C	6	6	6
	<i>gapdh</i>	20°C	6	6	5
		25°C	6	6	6

¹ dev. & acc. = developmental and adult acclimation